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8	UNITED STATES DISTRICT COURT		
9	NORTHERN DISTRICT OF CALIFORNIA		
10	SAN FRANCISCO DIVISION		
11			
12	UNITED STATES OF AMERICA,	Case No. CR 18-00463 CRB	
13	Plaintiff,		
14	v.	DEFENDANT'S MOTION FOR	
15	VICTOR TURK,	COMPASSIONATE RELEASE PURSUANT TO 18 U.S.C. § 3582(C)(1)(A)	
16	Defendant.		
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21	<u>NOTICE</u>		
22	PLEASE TAKE NOTICE that, at a date and time convenient to the Court for a telephonic/video		
23	hearing, Mr. Turk will and hereby does move the Court for an order for his release from custody. This		
24	motion is made on the grounds that Mr. Turk suffers from a serious medical condition that places him at		
25	high risk of a severe illness or death should he contract COVID-19, and that compassionate release to		
26	home confinement is permitted and appropriate under the circumstances.		
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DEFENDANT TURK'S MOTION FOR COMPASSIONATE RELEASE

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This motion is based on 18 U.S.C. § 3582(c)(1)(A), the attached memorandum of points and authorities, the concurrently filed declaration of counsel, report by cardiologist Dr. George Bren, medical records for Mr. Turk, and upon such evidence and argument as may be presented at the hearing.

Introduction

Victor Turk, through counsel, respectfully requests that this Court order his compassionate

release pursuant to 18 U.S.C. § 3582(c)(1)(A) due to the COVID-19 pandemic. Mr. Turk is a 45-year-old male who has Non-Rheumatic Aortic Stenosis which is an abnormality of the aortic valve. This is a congenital condition that degenerates over time. A recent examination by a cardiologist confirmed that Mr. Turk's aortic stenosis is severe. 1 Mr. Turk is housed at USP Lompoc, the medium security prison. As this Court is aware, this specific facility has been battling COVID-19 for months, at one point, having the largest outbreak of any BOP facility in the nation. The facility is currently under a court order regarding the handling and release of inmates due to the outbreaks. Mr. Turk continues to be at high risk for suffering serious complications, and even death, from COVID-19 should he contract the virus.² Remaining in custody is certainly a potential death sentence for Mr. Turk

Procedural History

On July 31, 2019, Mr. Turk was sentenced by this Court to serve 120 months in custody based on his plea to a violation of 21 U.S.C. §§ 846, 841(a)(1), (b)(1)(B)- Possession with Intent to Distribute 50 Grams or More of Methamphetamine and 18 U.S.C. § 924(c)(1)(A)- Carrying or Possessing a Firearm During and in Furtherance of a Drug Trafficking Crime. His current release date is February $16,2027.^3$

Mr. Turk submitted a written request to the warden of USP Lompoc for Mr. Turk to be granted compassionate release. On August 14, 2020, the warden denied Mr. Turk's request for release.

and, therefore, compassionate release is warranted.

¹ See. Medical Records for Mr. Turk attached as Exhibit B.

² See, Report by Dr. George Bren attached as Exhibit A.
³ See https://www.bop.gov/inmateloc/ (last visited September 21, 2020).

Legal Authority

As amended by the First Step Act, 18 U.S.C. § 3582(c)(1)(A)(i) authorizes courts to modify a term of imprisonment. The relevant portion of this section states:

[T]he court, upon motion of the Director of the Bureau of Prisons, or upon motion of the defendant after the defendant has fully exhausted all administrative rights to appeal a failure of the Bureau of Prisons to bring a motion on the defendant's behalf or the lapse of 30 days from the receipt of such a request by the warden of the defendant's facility, whichever is earlier, may reduce the term of imprisonment (and may impose a term of probation or supervised release with or without conditions that does not exceed the unserved portion of the original term of imprisonment), after considering the factors set forth in section 3553(a) to the extent they are applicable, if it finds that (i) extraordinary and compelling reasons warrant such a reduction ... and that such a reduction is consistent with applicable policy statements issued by the Sentencing Commission.

The relevant Sentencing Commission policy statement, USSG § 1B1.13(1)(A), sets forth several extraordinary and compelling reasons. Application Note 1(A) provides that "extraordinary and compelling reasons" exist where "[t]he defendant is . . . suffering from a serious physical or medical condition . . . that substantially diminishes the ability to provide self-care within the environment of a correctional facility and from which he or she is not expected to recover."

In order to be entitled to relief under 18 U.S.C. § 3582(c)(1)(A), Mr. Turk must (1) meet the exhaustion requirement and (2) demonstrate that "extraordinary and compelling reasons" warrant such a reduction. The court hearing the motion must find a reduction is consistent with applicable policy statements issued by the Sentencing Commission and consider factors set forth in 18 U.S.C. § 3553(a).

A. Mr. Turk has Exhausted his Administrative Remedies

In 2018 Congress expanded the statute in the First Step Act of 2018. Pub. L. No. 115-391, § 603(b), 132 Stat. 5194, 5239 (Dec. 21, 2018). As amended, § 3582(c)(1)(A)(i), now permits this Court to consider motions filed by the defendant so long as "the defendant has fully exhausted all administrative rights to appeal a failure of the Bureau of Prisons to bring a motion on the defendant's

behalf," or after "the lapse of 30 days from the receipt of such a request by the warden of the defendant's facility, whichever is earlier[.]" Mr. Turk meets the exhaustion requirement.

B. There are extraordinary and compelling circumstances to release Mr. Turk from Lompoc.

It is no longer a theoretical discussion as to whether COVID-19 will impact the prison system. As of September 21, 2020, there have been 121 federal inmates who have died and two staff members.⁵ Since April, the impact to the Lompoc Correctional Complex, specifically the USP medium security where Mr. Turk is housed, has been significant, As set forth in great detail in the Complaint by individuals incarcerated at Lompoc against the warden of Lompoc and the Director of the BOP, Lompoc was the site of the largest COVID-19 outbreak at a BOP facility.⁶

The CDC has warned that COVID-19 poses a heightened risk to those incarcerated in jail and prisons. See Interim Guidance on Mgmt of Coronovirus Disease 2019 (COVID-19) in Correctional and Detention Facilities, Ctrs for Disease Control and Prevention 2 (March 23, 2020). The CDC's dire predictions have borne out in correctional institutions around the country – including at Lompoc. See Castillo v. Barr, 2020 U.S. Dist.LEXIS54425 at *2 (C.D. Cal. Mar. 27, 2020); see also Torres, supra. BOP's "containment measures have already proven insufficient to prevent the spread of COVID-19." United States v. Rodriguez, 2020 U.S. Dist.LEXIS 58718 at *9 (E.D. Penn. April 1, 2020).

⁴ Congress specifically noted the "documented infrequency with which the BOP filed motions for a sentence reduction on behalf of defendants." *United States v. Redd*, No. 1:97-CR-00006-AJT, 2020 WL 1248493, at *7 (E.D. Va. Mar. 16, 2020). Accordingly, "while the First Step Act did preserve the BOP's role relative to a sentence reduction in certain limited respects, it eliminated the BOP Director's role as the *exclusive* channel through which a sentence reduction could be considered by courts." *Id.* (emphasis in original).

⁵ See https://www.bop.gov/coronavirus/

⁶ See Torres, et.al. v. Milusnic, No. 2:20-cv-04450 (C.D. Cal. May 16, 2020), ECF No. 1 at ¶ 2.

⁷ See https://www.cdc.gov/coronavirus/2019-ncov/community/correction-detention/guidance-correctional-detention.html

Mr. Turk's Health

Mr. Turk's heart condition renders him uniquely susceptible to severe and potentially fatal complications of COVID-19. The CDC has issued a report that lists medical conditions broken down into Tiers 1 and 2. Tier one conditions are conditions that are known to increase the risk of developing severe or fatal COVID-19 disease. Tier 2 are conditions that might increase risk. Mr. Turk's aortic stenosis falls into Tier 1 as a "serious heart disease." As noted in the report from Dr. Bren, Mr. Turk's medical condition is "relatively uncommon", so unlike hypertension or diabetes, there is little reference for cases; however, Dr. Bren is clear that his condition is a "serious heart disease" as defined by the CDC and that, severe aortic stenosis like Mr. Turk's, "would be expected to increase these risks [of death] even higher than those other conditions in the generic category of 'serious heart conditions'". Furthermore, and even more concerning, is that Mr. Turk's heart condition is accompanied by symptoms. Given he is symptomatic with severe aortic stenosis, Dr. Bren opines that Mr. Turk's risk of death, if he was to contract COVID-19, is substantial. Further, Dr. Bren opines that Mr. Turk needs invasive valve treatment, regardless of the pandemic- this is how serious his condition has become.

Coupling Mr. Turk's heart condition coupled with the explosive outbreaks of the virus in prison facilities, there are "extraordinary and compelling reasons" to order Mr. Turk's immediate release rather than forcing him to serve out the time remaining on his sentence under threat of a potentially fatal infection. As this pandemic has progressed, this Court, as well as many courts across the country, have ordered the release of defendants.

It is acknowledged that Mr. Turk has a significant portion of his sentence remaining, but this should not deter this Court from ensuring that Mr. Turk not end up with a death sentence should he

⁸ See, Report by Dr. George Bren attached as Exhibit A.

remain in custody. In *United States v. Boykin*, CR-14-201 EGS (D.C. July 16, 2020), having served only five years of a fifteen year sentence for firearms and narcotic charges, the court ordered release where Boykin suffered from obesity, asthma, hypertension, sleep apnea and pre-diabetes.

Further, while Mr. Turk does have a criminal history and there may be concerns about this,

Judge Alsup ordered the release of a defendant in custody for felon in possession of a firearm. *United States v. Lipine Faafiu*, CR 17-0231 WHA. Mr. Faafu is obese with high blood pressure and hypertension. He was being housed at USP Atwater where, at the time, there were no confirmed coronavirus cases. The court was concerned with the danger to community Mr. Faafu presented, but in his order recognized that "any risk or danger he does pose can be mitigated with highly restrictive conditions in home confinement." *See Id.* at ECF Document 75, Order, filed June 22, 2020. Similar restrictive measures can also be set in place for Mr. Turk.

Earlier this month, Judge Miranda M. Du, from the District of Nevada, ordered the release of defendant, Dewan Kauwe who was serving time for involvement in a methamphetamine conspiracy. (*United States v. Kauwe*, CR-14-00044-MMD-WGC, ECF Document 568, Order, filed August 10, 2020.) Mr. Kauwe filed three motions for compassionate release and was about halfway through a sixty-five month sentence. He was also housed at USP Lompoc. The court also stated that, even though the initial outbreak at Lompoc had subsided, that USP Lompoc is a more dangerous place than if he was released to his family. *Also, see, e.g., United States v. Perez*, 2020 U.S. Dist.LEXIS 57265 (SDNY Apr. 1, 2020)(the court noted that Perez' medical conditions justified release. "Confined to a small cell where social distancing is impossible, Perez cannot provide self-care because he cannot protect himself from the spread of a dangerous and highly contagious virus"); *United States v. Rodriguez*, 2020 U.S. Dist. LEXIS 58718 (E.D.Pa. Apr. 1, 2020) ("the outbreak of COVID-19 and underlying medical conditions that place [defendant] at a high risk should he contract the disease" justified release).

B. Release is consistent with Sentencing Commission policy statements and the Section 3553(a) factors.

Section 3582 directs the Court to consider applicable Sentencing Commission policy statements as well as the sentencing factors under 18 U.S.C. § 3553(a) in determining whether to exercise its authority to reduce a sentence. The applicable policy statements and sentencing factors weigh in favor of release. The applicable policy statement provides that "extraordinary and compelling reasons" exist where "[t]he defendant is . . . suffering from a serious physical or medical condition . . . that substantially diminishes the ability to provide self-care within the environment of a correctional facility and from which he or she is not expected to recover." *USSG § 1B1.13, Application Note 1(A)*. That is the case with Mr. Turk given his heightened risk should he contract COVID-19: his severe aortic stenosis substantially diminishes his ability to protect against potentially fatal complications. It is very likely that his heart will simply not be able to withstand this disease.

The section 3553(a) factors similarly weigh in favor of release. At the outset, section 3553(a)(2)(D) requires the Court to consider the health of a defendant. Granting Mr. Turk compassionate release to a sentence of home confinement will permit him to take advantage of any continued medical care he may require without delay or hindrance. As noted by Dr. Bren, he is need of a valve replacement soon- in the next few months.

Compassionate release also is consistent with the guidelines' goal of just punishment. Under *Pepper v. United States*, 562 U.S. 476, 490-93 (2011), the Court can, and indeed must, consider post-offense developments under § 3553(a). Here, the overriding factor under § 3553(a) that was not present at the time of sentencing is the COVID-19 pandemic and the serious risks it presents. Mr. Turk does not contest his original punishment and does not suggest that it was excessive or unreasonable, however, "just punishment" does not warrant a sentence that includes exposure to a life-threatening illness. In fact, the Eighth Amendment's prohibition on cruel and unusual punishment includes unreasonable exposure to dangerous conditions in custody. *Helling v. McKinney*, 509 U.S. 25, 28 (1993); *see also Wallis v. Baldwin*, 70 F.3d 1074, 1076 (9th Cir. 1995) (applying *Helling* to exposure to asbestos); *Brown v. Mitchell*, 327 F. Supp. 2d 615, 650 (E.D. Va. July 28, 2004) (applying *Helling* to contagious diseases caused by overcrowding conditions). While it is true that Mr. Turk has a considerable amount

of his sentence remaining, this must be weighed against the seriousness of his medical condition and the very real possibility the contracting COVID-19 could be fatal.

Lastly, this Court can certainly protect the public by imposing strict conditions that this Court determines are necessary to address any concerns that Mr. Turk is a danger to the public. Mr. Turk was convicted of non-violent crimes and has had no disciplinary issues while in custody. He has been a "Unit Orderly/Head Orderly" for about the past ten months.

Mr. Turks' release plan is to live with his mother who is prepared to financially support Mr. Turk. Throughout his case, and while serving his sentence, Mr. Turk continues to maintain a very close relationship with this family. Mr. Turk has also spoke to his pastor and is working with him to find employment.

Additionally, section 3553(a)(2)(D) directs the Court to consider what sentence would best provide the defendant with needed medical care. "He is unlikely to be able to get the medical care he needs at Lompoc in the midst of the pandemic." *United States v. Robinson*, 2020 WL 1982872 (N.D. Cal. Apr. 27, 2020) at *5 (citations omitted). Mr. Turk needs a serious medical procedure and he needs it soon. Mr. Turk can best access needed medical care at home, where he will resume care with his regular medical provider.

Relief Requested

Mr.Turk asks the Court to grant his request for compassionate release and place him on a term of home confinement with any conditions this Court finds are necessary to meet the sentencing factors.

DATED: September 21, 2020 Respectfully submitted,

/s/ Sara Rief SARA RIEF

Attorney for Defendant VICTOR TURK

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UNITED STA	ATES DISTRICT COURT	
NORTHERN DISTRICT OF CALIFORNIA		
SAN FRANCISCO DIVISION		
DAIVITO	INCISCO DIVISION	
UNITED STATES OF AMERICA,	1	
Plaintiff,	Case No. CR 18-00463 CRB	
	DECLADATION OF GADA DIFE	
V.	DECLARATION OF SARA RIEF	
VICTOR TURK,		
Defendant.		
I, Sara Rief, declare the following:		
1. I have been appointed to represent Mr. Turk in both his underlying matter and in the filing of his motion requesting compassionate release. I have personal knowledge of the facts stated in this		
detailed and would testing competer.	itiy to those facts if called as a without.	
2. I am informed and believe that Mr. Turk sent a letter to the warden requesting compassionate release and, that on August 14, 2020, the warden denied Mr. Turk's request for release.		
	-1-	
Dec of Sara Rief		
Turk, 18-463 CRB		

- 3. I have spoken to Dodie Turk, his mother, and can confirm that Mr. Reyes would be living at her residence and that she would be supporting him financially.
- 4. I have obtained Mr. Turk's medical records from the Bureau of Prisons via my client. I also obtained his medical records via a release for a recent cardiologist examination offsite. These records are attached as Exhibit B. Because these records contain both personal identifying information and information that may be within the scope of confidentiality protections afforded by the Health Insurance Portability and Accountability Act ("HIPPA"), I request that Exhibit B be filed under seal. A separate motion and proposed sealing order are being filed with the court. I declare under penalty of perjury that the foregoing is true and correct.

/s/ Sara Rief SARA RIEF

Executed on September 21st, 2020 in San Francisco, California.

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7	UNITED STATES DISTRICT COURT		
8	NORTHERN DISTRICT OF CALIFORNIA		
9	SAN FRANCISCO DIVISION		
10			
11	UNITED STATES OF AMERICA,	Case No. CR 18-00463 CRB	
12	Plaintiff,	Case No. CR 18-00403 CRD	
13	V.	[PROPOSED] ORDER FOR	
14	VICTOR TURK,	COMPASSIONATE RELEASE PURSUANT TO 18 U.S.C. § 3582(C)(1)(A)	
15	Defendant.		
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20			
21	[PROPOSED] ORDER		
22	It is hereby ordered that, pursuant to 18 U.S.C. §3582(C)(1)(A), Mr. Turk be released from the		
23	custody of the Bureau of Prisons and be placed on a period of home confinement with restrictions as		
24	determined by the probation office.		
25	IT IS SO ORDERED.		
26	_		
27	Hon. Judge Charles R. Breyer UNITED STATES DISTRICT COURT		
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EXHIBIT A

GEORGE BREN, M.D. 1700 KALORAMA RD. N.W. #409 WASHINGTON, D.C. 20009

9/16/20

Re: Victor John Turk DOB: 8/27/75 Reg. #: 25181-111

To whom it may concern,

I am a general cardiologist with Board certification in Internal Medicine as well as Cardiovascular Disease. I have served on the full-time faculty at George Washington University where I was Associate Professor of Medicine (Cardiology) and Emergency Medicine. I have been in private practice since 1989.

I have completed a review of the medical records of Victor John Turk (DOB: 8/27/75, Reg. # 25181-111) as provided by the Federal Bureau of Prisons (BOP) covering the period 11/14/19 to 8/10/20 with regards to possible compassionate release under 18 U.S.C. §3582(c)(1)(A).

The records show that Mr. Turk is a 45 year old former smoker who suffers from the following medical conditions:

Non-Rheumatic Aortic Stenosis - Although this is not specifically listed as a formal diagnosis in the provided medical record, the record refers to this condition on multiple occasions and the diagnosis has been confirmed both by a local cardiology consultant and by a subsequent echocardiogram.

Aortic stenosis (AS) is an abnormality of the aortic valve in which, for a variety of potential reasons, the valve, which sits between the left ventricle and the aorta, does not open fully as the left ventricle is ejecting blood out of the heart into the aorta and thence to the body. This results in an increase in the amount of work the left ventricle must perform when pumping, and, when severe, can result in an inability of the heart to pump sufficient blood to meet the body's needs at the time, which is obviously quite a dangerous situation.

In Mr. Turk's case, his aortic stenosis is not the result of rheumatic fever, at one time by far the most common cause of AS, but rather due to a congenital condition called bicuspid aortic valve in which the valve has 2 sections (cusps) instead of the usual 3. The abnormal valve is subject to more than the usual wear and tear over time, resulting in a progressive degeneration of the valve and in progressive worsening of the degree of stenosis. Measures of the severity of this condition include the presence of certain echocardiographic findings and the presence or absence of symptoms due to the AS.

Mr. Turk's echocardiogram, performed on 8/10/20, confirms that his arctic stenosis is in the severe range. The diagnosis of severe AS is based on certain echocardiographic findings, including a calculation of the cross-sectional area of the valve orifice when fully opened (aortic valve area, or AVA) and a measure of the extra pressure required to open the

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stenotic valve and maintain a normal cardiac output as compared to a normal valve (pressure gradient). In Mr. Turk's case, the echocardiogram shows an AVA of 0.8 cm2 and a peak pressure gradient of 64 mm of mercury, both considered in the severe range. The echo further showed that the strength of the heart muscle appeared normal, although an electrocardiogram (ECG) shows abnormal thickening of the muscle, a finding to be expected given the extra work the muscle must perform.

It should be noted that these echocardiographic parameters which define severe AS are not randomly chosen, but rather are based on the fact that severe AS is truly defined to be that the degree of stenosis which can have important health consequences, including heart failure and death. The echocardiographic definitions of severe AS are selected to be those parameters that correlate with the onset of this high-risk period.

Mr. Turk's medical record also indicates that in recent months, as initially reported in the record on 3/5/20, Mr. Turk has been bothered by symptoms of shortness of breath (dyspnea) with exertion and chest pain with exertion. These text-book symptoms of severe AS result from the fact that the heart is unable to meet its pumping requirements if those requirements increase even a small amount. Thus, the development of symptoms in the course of AS progression implies that the disease has reached an even more severe stage, resulting in even higher risk of heart failure and death. As a result, the standard treatment for severe, symptomatic AS is invasive valve replacement to directly alleviate the stenosis. It is my opinion that Mr. Turk should be treated with invasive valve replacement in the next several months, irrespective of COVID-19 related risks.

Anxiety disorder - This is a chronic problem with Turk that is being treated with the drug buspirone.

Major Depressive Disorder - This is also a chronic problem which is currently being treated with mirtazapine. He is not considered to be suicidal.

On 7/20/20 the Centers for Disease Control and Prevention (CDC) issued a report (People with Certain Medical Conditions (1)), which includes a list those medical conditions which (co-morbidities) that are known to increase the risk of developing severe or fatal COVID-19 disease (so-called Tier 1 conditions) and those that might increase risk (Tier 2). Mr. Turk has "serious heart disease" a CDC-recognized Tier 1 risk indicator.

Because severe AS is relatively uncommon, particularly in Mr.Turk's age demographic, there appear to have been too few cases amongst those with COVID-19 to draw meaningful, statistically relevant conclusions. Thus, the CDC does not specifically note that severe AS is a Tier 1 condition, but rather includes it in a generic category it terms "serious heart disease". As has been noted above, severe AS certainly is a form of "serious heart disease" given the health hazards that can result even in the absence of other stressors such as COVID-19. This is even more true when symptoms are present which, in conjunction with the echocardiographic findings, indicate that the heart is unable cope with simple, day-to-day stressors such as walking, let alone the majors stressors induced by COVID-19, including the extra work of

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WASHINGTON, D.C. 20009

breathing, tachycardia, sepsis, fever, low oxygen levels, etc., all of which prove to be very poorly tolerated in an individual with an already over-taxed heart.

The CDC, in their report, cite several studies that discuss the relationship between "serious heart conditions" and severe or fatal COVID-19 disease. As noted, these reports refer to a spectrum of heart conditions which a clinician would consider to be serious, without specifically referring to severe AS due to its low prevalence and therefore the inability to provide statistically meaningful findings as compared to other, more common, forms of heart disease.

Thus, the CDC cites work by Chen, et. al.(2) which reviewed the outcomes of 1590 hospitalized patients with proven COVID-19 disease. The presence of coronary artery disease (in which plaque forms in the walls of the the coronary arteries which can result in death or myocardial infarction) increased the risk of severe or fatal COVID disease by a factor of 4.28. A report by Williamson, et. al.(3) followed the course of approximately 17 million adults enrolled in the UK National Health Service. 5,683 of these adults ultimately died of COVID-19, with serious heart conditions, in which they specifically include the presence of severe valvular disease, increasing the risk of death by a factor of 2.01. Zheng et. al. (4) published the results of a meta analysis of COVID-19 outcomes The analysis included 13 earlier reports involving 3027 confirmed COVID-19 patients with cardiovascular disease. In this population the risk of dying was 5.19 times higher than those without heart disease and the odds of developing heart injury was increase 43-fold. Yang et. al. (5) also performed a meta analysis that included 7 studies and 1576 COVID-19 patients. The presence of cardiovascular disease increased the risk of dying from COVID by a factor of 3.42. The CDC's conclusion that serious heart conditions rightfully belong in the Tier 1 category appears well-justified.

Additionally, based on readily available data, it appears that federal inmates are at higher risk of contracting and of dying from COVID-19. Federal BOP data as presented on their website (6) (accessed 9/15/20) show that there have been a total of 53,266 COVID tests performed on a total of 126,754 federal inmates, of which 13,299 were positive with results pending in 2,042 individuals. The BOP additionally reports that there are currently 1,930 inmates with positive tests (who presumably are undergoing either active treatment or observation) while 11,476 inmates have recovered and 119 have died.

Because only about 40% of federal inmates have been tested (53,266 tests/126,724 inmates) the actual number of COVID-19 cases is almost assuredly even higher than the stated figures. Nevertheless, several observations can be made regarding these figures.

Firstly, although the BOP points out that, as more than 1 test may have been positive in a given inmate, one can not equate the number of positive tests with the number of positive individuals, A careful analysis of their data shows that these 2 figures are in actuality almost identical. All patients with positive tests must be in 1 of 3 categories; those with current, active disease, those who have recovered and those who have died. This total of 13,525 inmates (1,930 + 11,476 + 119) is virtually identical to the 13,299 reported positive tests. Note that the reported figures indicate more infected inmates than the total number of positive tests, indicating some inaccuracy in reporting. For simplicity's sake, the inmates with pending tests can be ignored due to their small relative number.

GEORGE BREN, M.D. 1700 KALORAMA RD. N.W. #409 WASHINGTON, D.C. 20009

Second, despite the diligent approach take by the BOP, federal inmates are testing positive for coronavirus at higher rates than the general population. The available data show that 13,523 of 53,266 tested inmates are SARS-CoV-2 positive, yielding a positivity rate of 25%, a rate which is substantially higher than the national average which stands at 8.0% since 3/1/20 and at 5.8% for the week of 9/4-9/11/20 (7).

In addition, federal inmates have a higher mortality rate from COVID-19 as compared to the general population. The BOP reports 119 deaths/126,754 federal inmates, which is equivalent to 94 deaths/100,000 individuals. In contrast, the nationwide mortality rate is 59/100,000 since the onset of the pandemic (8). Again, note that pending test results can be safely ignored without altering these conclusions.

There are many potential factors that could explain the observed differences in the COVID-19 infection and mortality rates between federal inmates and the general population, including differences in environment, the ability to socially distance, availability of personal protective equipment, and demographics. The key point, however, is that despite the many precautionary measures taken by the BOP, there remain significant differences between BOP data and the overall US figures as reported by the CDC and Johns Hopkins University which indicate that federal prisoners have a significantly higher risk of both infection and death from COVID-19 than the general US population.

Based on the above, it is my opinion that:

Mr. Turk has severe AS which substantially increases his risk of developing severe of fatal COVID-19 disease should he become infected. Although one is unable to quantify this risk due to the disease's low prevalence, the nature of severe AS would be expected to increase these risks even higher than those other conditions in the generic category of "serious heart conditions."

Irrespective of Mr. Turk's COVID status, he should have invasive valve replacement within the next few months, based solely on the severity of his AS.

Despite the best efforts of the BOP, federal inmates are at a higher risk of contracting and dying from COVID-19 disease than the general population.

Respectfully Submitted,

George Bren, M.D.

GEORGE BREN, M.D. 1700 KALORAMA RD. N.W. #409 WASHINGTON, D.C. 20009

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https://www.CDC/gov/coronavirus/2019-ncov-need-extra-precautions/people-with-certain-medical-conditions.html

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- (5) Yang, J., et. al., Prevalence of comorbidities and its effects in patients infected with SARS-CoV-2: a systematic review and meta-analysis. International Journal of Infectious Diseases 2020. 94: p. 91-95
- (6) https://www.bop.gov/coronavirus/ (accessed 9/15/20)
- (7) https://www.cdc.gov (accessed 9/15/20)
- (8) https://www.coronavirus.jhu.edu (accessed 9/15/20)

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Expiration date: 12/31/20

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PROFESSIONAL SOCIETIES:

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PUBLICATIONS

ARTICLES

- McManus BM, Bren GB, Robertson EA, Katz RJ, Ross AM, Roberts WC: Hemodynamic Cardiac Constriction Without Anatomic Myocardial Restriction or Pericardial Constriction. American Heart Journal 102:134-136, July 1981.
- Bren GB and Katz RJ: Diagnosis and Evaluation of Paroxysmal Atrial Tachycardia. Practical Cardiology 7:57-68, December 1981.
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- Wasserman AG, Rios JC, Bren GB, Katz RJ, Bogaty D, and Ross AM: Prognosis after infarct: Stratification by Q wave evolution. American Journal of Cardiology 47:465, February 1981. (Presented at the 30th Annual Scientific Session of the American College of Cardiology, March 1981).
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- 7. Leiboff RH, Bren GB, Katz R, Korkegi R, Katz B, and Ross AM: Determinants of transstenotic gradients observed during angioplasty. Am J Cardiol 49:917, March 1982. (Presented at the 31st Annual Scientific Session of the American College of Cardiology, April 1982).
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- Leiboff RH, Ross AM, Katz R, Wasserman A, Bren G, and Varghese PJ: A randomized controlled trial of intracoronary streptokinase in acute MI: Preliminary (cautionary) observations. Clinical Research 30 (2):200A, April 1982. (<u>Presented at the AAP/ASCI/AFCR National Meeting</u>, May 1982).

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- 17. Ross AM, Johnson R, Wasserman AG, Katz RJ, Bren GB, Leiboff R, Varghese PJ: Intravenous digital subtraction angiography: Applications in coronary artery disease. (Scientific Exhibit presented at the 32nd Annual Scientific Session of the American College of Cardiology, March 1983.)
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- 38. Bren GB, Wasserman AG, El-Boyoumi J, Ross AM: Comparison of DDD and rate responsive VVI pacing during exercise. Circulation 74 Supp II: II-38, 1986. Presented at the 59th Annual Scientific Session of the American Heart Association, November, 1986).
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- 40. Bren GB, Wasserman AG, Ross AM: Electrocardiographic infarct evolution is accelerated by successful thrombolysis. Journal of the American College of Cardiology 9:63A, 1987. (Presented at the 36th Annual Scientific Session of the American College of Cardiology, March, 1987).
- 41. Bren GB, Wasserman AG, Ross AM: Coronary perfusion status in Q and non-Q wave infarction patients presenting with ST elevation. Circulation 76, Supp IV:IV-123, 1987. Presented at the 60th Annual Scientific Session of the American Heart Association, November, 1987).